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NOTICE OF ALLOWANCE AND FEE(S) DUE

23696 7590 03/13/2008 QUALCOMM INCORPORATED 5775 MOREHOUSE DR. SAN DIEGO, CA 92121 EXAMINER

DOAN, KIET M

ART UNIT PAPER NUMBER

2617

DATE MAILED: 03/13/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/632,411	08/01/2003	Parvathanathan Subrahmanya	020133	4378	

TITLE OF INVENTION: ADAPTING OPERATION OF A COMMUNICATION FILTER BASED ON MOBILE UNIT VELOCITY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/13/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including a below or directed oth tions.	or tran ig the l ierwise	smitting the ISSU Patent, advance or in Block 1, by (a	JE FEE and PUBLIC rders and notification a) specifying a new co	of m	ON FEE (if requinamentenance fees who pondence address;	red). I vill be and/or	Hocks 1 through 5 st mailed to the current (b) indicating a sepa	nould be completed where correspondence address as rate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
QUALCOMM 5775 MOREHOI SAN DIEGO, C.					I ber	Cer	tificate	of Mailing or Trans		
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APPLICATION NO.	FILING DATE			FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.	
10/632,411	08/01/2003		P	arvathanathan Subrahi	nany	ra .	020133 4378			
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nonprovisional	NO		\$1440	\$300		\$0		\$1740	06/13/2008	
EXAM	INER		ART UNIT	CLASS-SUBCLASS						
DOAN, I			2617	455-441000						
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA ess an assignee is ident h in 37 CFR 3.11. Comp	nge of 6 " Indica ed. Use	Correspondence ation form e of a Customer E PRINTED ON		ingle or a attor I be p r typ ne pa an a	ely, c firm (having as a gent) and the name neys or agents. If printed. c) utent. If an assignussignment.	memb es of u no nam ee is id	er a 2o to e is 3	ocument has been filed for	
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	QUALCOMM II	NCORPORATED	DOAN, KIET M		
	5775 MOREHOUS		ART UNIT	PAPER NUMBER	
SAN DIEGO, CA 92121				2617	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 108 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 108 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
Notice of Allowability	10/632,411	SUBRAHMANYA, PARVATHANATHAN				
Notice of Anowability	Examiner	Art Unit				
	KIET DOAN	2617				
The MAN INC DATE of the control of the						
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this appropriate communication IGHTS. This application is subject to	olication, If not includ- will be mailed in due	ed course. THIS			
 This communication is responsive to <u>02/21/08</u>. 						
2. X The allowed claim(s) is/are 1,2,6,9,10,15,16,18-21,24,28-3	30,35,36,38,50,52,53 and 55-71.					
3. Acknowledgment is made of a claim for foreign priority up	nder 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some* c) None of the:						
 Certified copies of the priority documents have 	been received.					
Certified copies of the priority documents have	been received in Application No	·				
Copies of the certified copies of the priority do	cuments have been received in this	national stage applica	tion from the			
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the re-	quirements			
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			IOTICE OF			
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.					
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	948) attached				
1) hereto or 2) to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	s Amendment / Comment or in the C	Office action of				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of			
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			Note the			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application				
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	(PTO-413),				
□ Information Disclosure Statements (PTO/SB/08),		Paper No./Mail Date 7. ⊠ Examiner's Amendment/Comment				
Paper No./Mail Date	P. ■ Exeminer's Stateme	ent of Reasons for Alle	wance			
of Biological Material		nee-saldid				
	 Other . 					

Page 2

Application/Control Number: 10/632,411

Art Unit: 2617

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/21/2008 has been entered.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ken Vu at (858) 658-5106 on 02/28/2008.

The examiner amendment as follow:

Claim 64. A <u>computer</u>-readable medium comprising instructions for adapting a pilot filter that processes received signals in a wireless communication network, comprising:

determining a velocity of a wireless communication device in relation to a wireless network infrastructure: Application/Control Number: 10/632,411

Art Unit: 2617

estimating a noise power estimate of at least one of the received signals; and determining one or more coefficients of the pilot filter based on the determined velocity of the wireless communication device and the noise power estimate,

wherein:

the pilot filter receives a plurality of pilot symbols; and

each symbol of the plurality is multiplied by the at least one of the one or more coefficients.

Claims 65-71, line 1, change from "A machine-readable medium" to "A computer-readable medium"

Allowable Subject Matter

- 3. The following is an examiner's statement of reasons for allowance:
- Claims 1, 16, 24, 35, 55, 64 are allowed accordingly to the remarks file on 09/04/2007. 12/14/2006 and examiner amendment on 11/21/2007.

Claims 2, 6, 9, 10, 15, 18-21, 28-30, 36, 38, 56-63, 65-71, 50, 52, 53 are allow as being dependent on the independent claims of 1, 16, 24, 35, 55 and 64.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

Art Unit: 2617

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KIET DOAN whose telephone number is (571)272-7863. The examiner can normally be reached on 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kiet Doan/ Examiner, Art Unit 2617

/Joseph H. Feild/

Supervisory Patent Examiner, Art Unit 2617

Application Number

 Application/Control No.
 Applicant(s)/Patent under Reexamination

 10/632,411
 SUBRAHMANYA, PARVATHANATHAN

 Examiner
 Art Unit

2617

KIET DOAN